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Standards

Irish Standard  
I.S. EN 50085-2-1:2006

# Cable trunking systems and cable ducting systems for electrical installations -- Part 2-1: Cable trunking systems and cable ducting systems intended for mounting on walls and ceilings

## I.S. EN 50085-2-1:2006

*Incorporating amendments/corrigenda issued since publication:*

EN 50085-2-1:2006/A1:2011

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<i>This document replaces:</i>	<i>This document is based on:</i> EN 50085-2-1:2006	<i>Published:</i> 20 October, 2006
This document was published under the authority of the NSAI and comes into effect on:  15 November, 2006		ICS number: 29.120.10
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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 50085-2-1/A1**

October 2011

ICS 29.120.10

English version

**Cable trunking systems and cable ducting systems for electrical installations -  
Part 2-1: Cable trunking systems and cable ducting systems intended for mounting on walls and ceilings**

Systèmes de goulottes et systèmes de conduits-profilés pour installations électriques -  
Partie 2-1: Systèmes de goulottes et systèmes de conduits-profilés prévus pour être montés sur les murs et les plafonds

Elektroinstallationskanalsysteme für elektrische Installationen -  
Teil 2-1: Besondere Anforderungen für Elektroinstallationskanalsysteme für Wand und Decke

This amendment A1 modifies the European Standard EN 50085-2-1:2006; it was approved by CENELEC on 2011-10-10. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

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**CENELEC**

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**Management Centre: Avenue Marnix 17, B - 1000 Brussels**

## **Foreword**

This document (EN 50085-2-1:2006/A1:2011) has been prepared by the Technical Committee CENELEC TC 213, "Cable management systems".

The following dates are fixed:

- latest date by which this document has to (dop) 2012-10-10  
be implemented at national level by  
publication of an identical national  
standard or by endorsement
- latest date by which the national standards (dow) 2014-10-10  
conflicting with this  
document have to be withdrawn

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## Text of A1 to EN 50085-2-1:2006

### 10.101 Compression test for CDS

#### **Replacement:**

CDS shall have adequate resistance to compression to ensure that insulated conductors or cables can be drawn in.

*Compliance is checked by the following test:*

*The test is carried out on a ducting length  $(250 \pm 5)$  mm long. The sample is positioned on a flat and horizontal steel support simulating the mounting surface, in its most unfavourable stable position allowed by the manufacturer's instruction.*

NOTE In case of doubt over the most unfavourable position, more than one position can be tested.

*A steel cube of  $(50 \pm 0,5)$  mm with an edge radius of approximately 1 mm is placed with one face horizontal approximately in the middle of the length of the sample and in the most unfavourable position in the width of the sample. The distance  $D$  (Figure 109) between the horizontal support and the face of the cube in contact with the sample is measured as  $D1$ .*

*An increasing vertical compression force reaching within  $(30 \pm 3)$  s the value according to 6.104 with a tolerance of  $^{+4}_0\%$  is applied through the cube. The cube is only allowed to move in the vertical direction without rotation.*

*After the force has been applied for  $(60 \pm 2)$  s, the distance  $D$  between the horizontal support and the face of the cube in contact with the sample is measured as  $D2$  without removing the force.*

*The difference between  $D1$  and  $D2$  shall not exceed 25 % of  $D1$ .*

*The force and the cube are removed.*

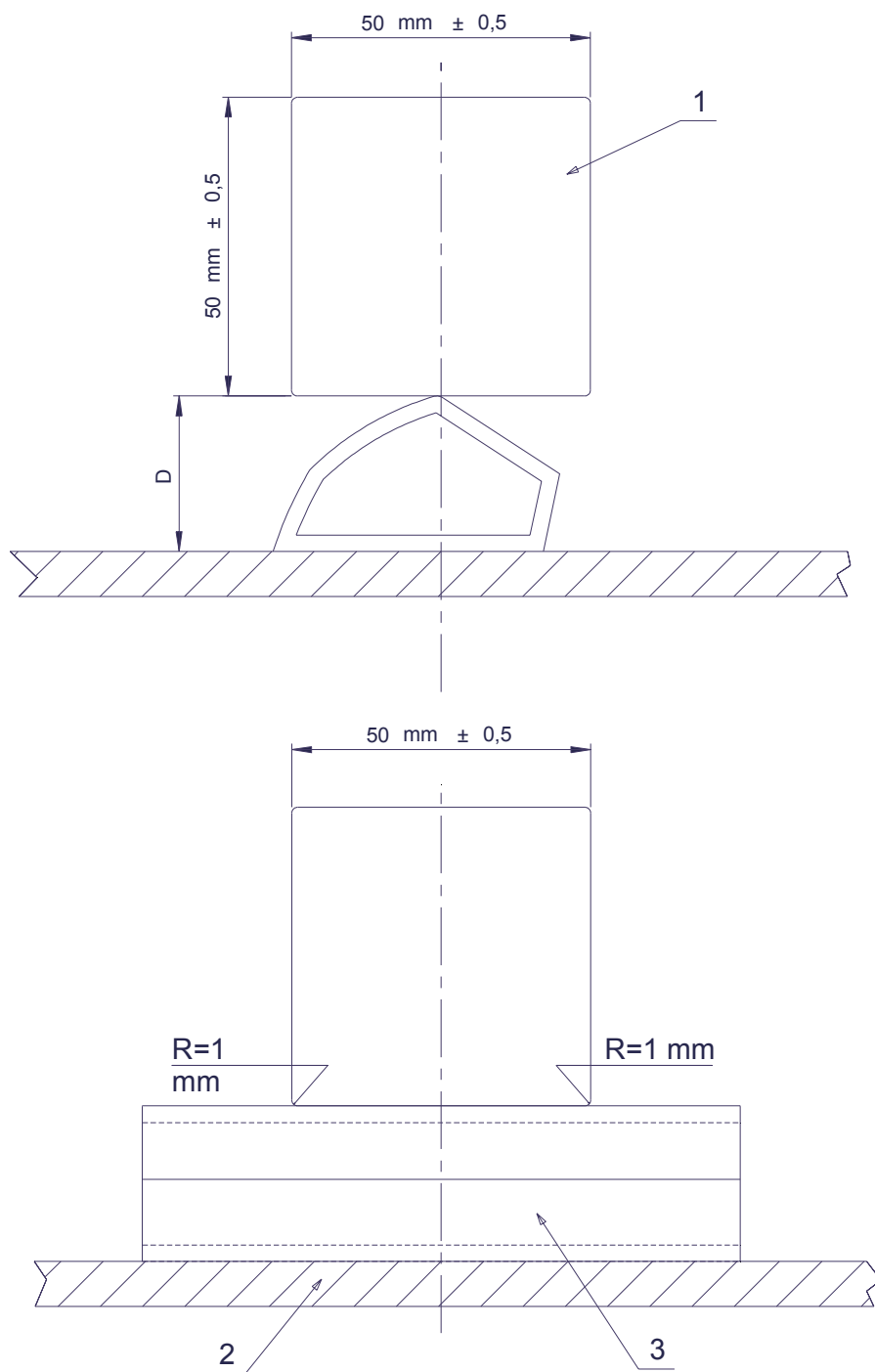
*Within  $(15 \pm 1)$  min after the removal of the cube, it is placed on the sample in its original horizontal position and the distance  $D$  between the horizontal support and the face of the cube coming into contact with the sample is measured as  $D3$ .*

*The difference between  $D1$  and  $D3$  shall not exceed 10 % of  $D1$ .*

*After the test, the sample shall show no cracks visible to normal or corrected vision without additional magnification.*

**Figure 109 - Example of arrangement for CDS compression test**

**Replacement:**



**Key**

- 1 steel cube
- 2 flat steel support
- 3 sample
- D distance between the horizontal support and the face of the cube in contact with the sample

**Figure 109 - Example of arrangement for CDS compression test**

**Add the following annex:**

**Annex D**  
(normative)

**Compliance checks to be carried out for cable trunking systems and cable ducting systems intended for mounting on walls and ceilings complying with EN 50085-2-1:2006**

This normative annex relates to changed requirements. It informs where compliance checks are not required and where compliance checks are required to be carried out in order that a cable trunking system or cable ducting system intended for mounting on walls and ceilings can be declared to meet the requirements of EN 50085-2-1:2006 and EN 50085-2-1:2006/A1:2011 if it already complies with EN 50085-2-1:2006.

Compliance with 10.101 “Compression test for CDS” is required for cable ducting systems only.

EN 50085-2-1:2006/A1:2011 is not applicable to cable trunking systems.

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EUROPEAN STANDARD

**EN 50085-2-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2006

ICS 29.120.10

English version

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Part 2-1: Cable trunking systems and cable ducting systems  
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für elektrische Installationen  
Teil 2-1: Besondere Anforderungen  
für Elektroinstallationskanalsysteme  
für Wand und Decke

This European Standard was approved by CENELEC on 2006-10-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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**CENELEC**

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

## Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 213, Cable management.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50085-2-1 on 2006-10-01.

The following dates were fixed:

- latest date by which the EN has to be implemented  
at national level by publication of an identical  
national standard or by endorsement (dop) 2007-10-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2009-10-01

This standard is a system standard for cable management products used for electro-technical purposes. It relates to the Council Directives on the approximation of laws, regulations and administrative provisions of the Member States relating to Low Voltage Directive (73/23/EEC) through consideration of the essential requirements of this directive.

This standard is supported by separate standards to which references are made.

This Part 2 is to be used in conjunction with EN 50085-1:2005, Cable trunking and cable ducting systems for electrical installations – Part 1: General requirements.

This Part 2 supplements or modifies the corresponding clauses of Part 1. Where a particular clause or subclause of Part 1 is not mentioned in this Part 2, that clause or subclause of Part 1 applies as far as is reasonable. Where this Part 2 states “addition” or “replacement”, the relevant text of Part 1 is to be adapted accordingly.

Subclauses and figures which are additional to those in Part 1 are numbered starting from 101.

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